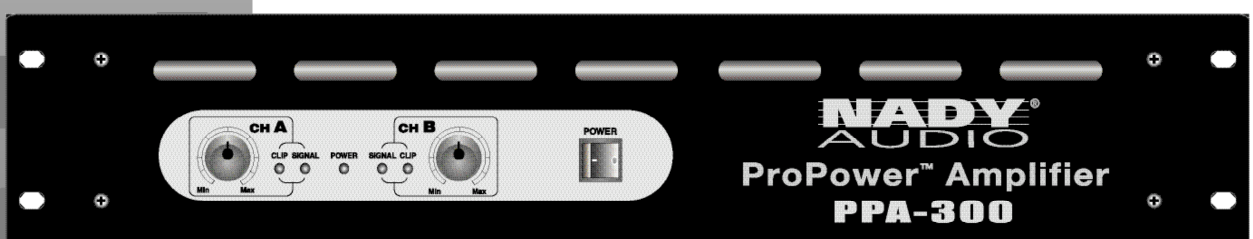
NADY AUDIO

OWNER'S MANUAL

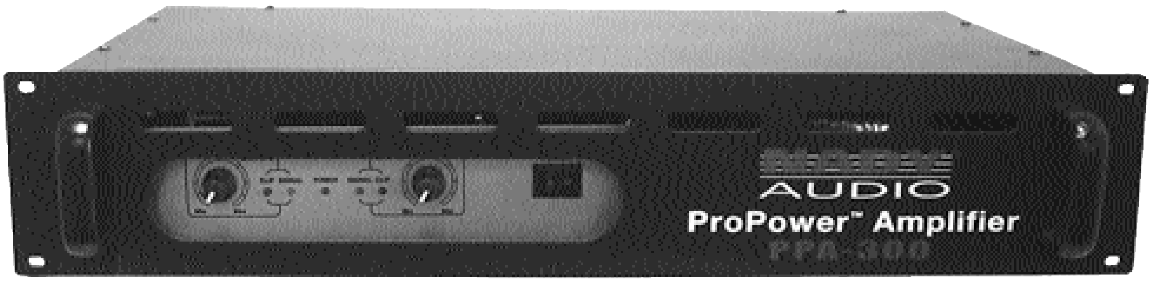
AMPLIFIER



PPA-300

ProPower™ Stereo Power Amplifier

PPA-300
ProPower™ Stereo Power Amplifier



Congratulations on your choice of the NADY AUDIO ProPower™ PPA-300 stereo power amplifier — you have purchased one of the finest stereo amplifiers on the market today. This unit was developed using the expertise of professional sound engineers and working musicians. You will find that your new PPA-300 amplifier has superior performance and greater flexibility than any other amplifiers in its price range. Please read this manual carefully to get the most out of your new unit. Thanks for selecting NADY AUDIO as your choice in stereo power amplifiers.

FEATURES

Offering top power, superior performance and full professional operating features in a roadworthy compact chassis, the PPA-300 amplifier is perfect for even the most demanding sound reinforcement installation and touring applications.

- Full operating features: stereo (dual channel), volume controls; XLR and 1/4" TS inputs
- Full safety/reliability features: fan for cooling; soft-start turn on, noise-free on-off; built-in DC offset; independent DC and thermal overload protection on each channel; short circuit and speaker protection
- Power ON LED; Signal and Clipping LED indicators for each channel
- Roadworthy, rugged double rack space (2U) housing
- IEC power cord connector with built-in fuse
- PPA-300 - 2 x 150W RMS @ 4 Ohms, 2 x 120W RMS @ 8 Ohms

CONTENTS

Date of Purchase ____________________

Dealer's Name ____________________

City ____________________

State ____________________

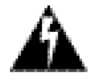
Zip ____________________

Model # ____________________

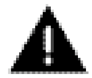
Serial # ____________________

WARNING





An equilateral triangle enclosing a lightning flash/arrowhead symbol is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure which may be of sufficient magnitude to constitute a risk of electric shock.



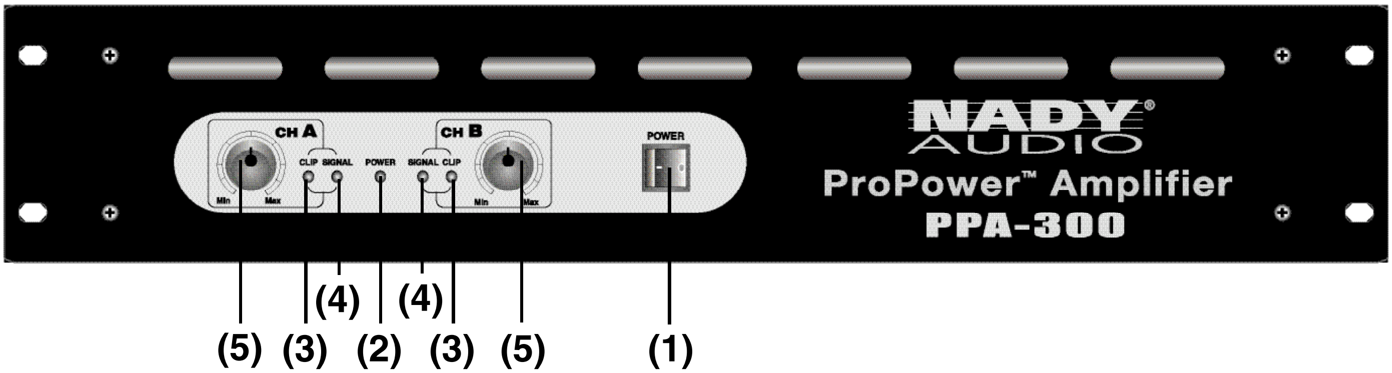
An equilateral triangle enclosing an exclamation point is intended to alert the user to the presence of important operating and service instructions in the literature enclosed with this unit.

IMPORTANT SAFETY INSTRUCTIONS

When using this electronic device, basic precautions should always be taken, including the following:

1. Read all instructions before using the product.
2. Do not use this product near water (e.g., near a bathtub, washbowl, kitchen sink, in a wet basement, or near a swimming pool, etc.).
3. This product should be used only with a cart or stand that will keep it level and stable and prevent wobbling.
4. This product, in combination with headphones or speakers, may be capable of producing sound levels that could cause permanent hearing loss. Do not operate for a long period of time at a high volume level or at a level that is uncomfortable. If you experience any hearing loss or ringing in the ears, you should consult an audiologist.
5. The product should be positioned so that proper ventilation is maintained.
6. The product should be located away from heat sources such as radiators, heat vents, or other devices (including amplifiers) that produce heat.
7. The product should be connected to a power supply only of the type described in the operating instructions or as marked on the product. Replace the fuse only with one of the specified type, size, and correct rating.
8. The power supply cord should: (1) be undamaged, (2) never share an outlet or extension cord with other devices so that the outlet's or extension cord's power rating is exceeded, and (3) never be left plugged into the outlet when not being used for a long period of time.
9. Care should be taken so that objects do not fall into, and liquids are not spilled through, the enclosure's openings.
10. The product should be serviced by qualified service personnel if:
    A. The power supply cord or the plug has been damaged.
    B. Objects have fallen into, or liquid has been spilled onto the product.
    C. The product has been exposed to rain.
    D. The product does not appear to operate normally or exhibits a marked change in performance.
    E. The product has been dropped, or the enclosure damaged.
11. Do not attempt to service the product beyond what is described in the user maintenance instructions. All other servicing should be referred to qualified service personnel.

FRONT & REAR CONTROLS AND CONNECTIONS



FRONT PANEL

1. POWER SWITCH

To turn the unit ON or OFF, press the left or right portion of this button. Before turning on the amplifier, check all connections and turn down the level controls. A momentary muting is normal when turning the amplifier on or off. *(Caution: Always turn on your power amplifier last, after all your other connected equipment, and always turn off your power amplifier before your other connected equipment.)*

2. POWER LED INDICATOR

This LED flashes and then illuminates when the power is turned “ON”.

3. CLIP (PEAK) LED INDICATORS

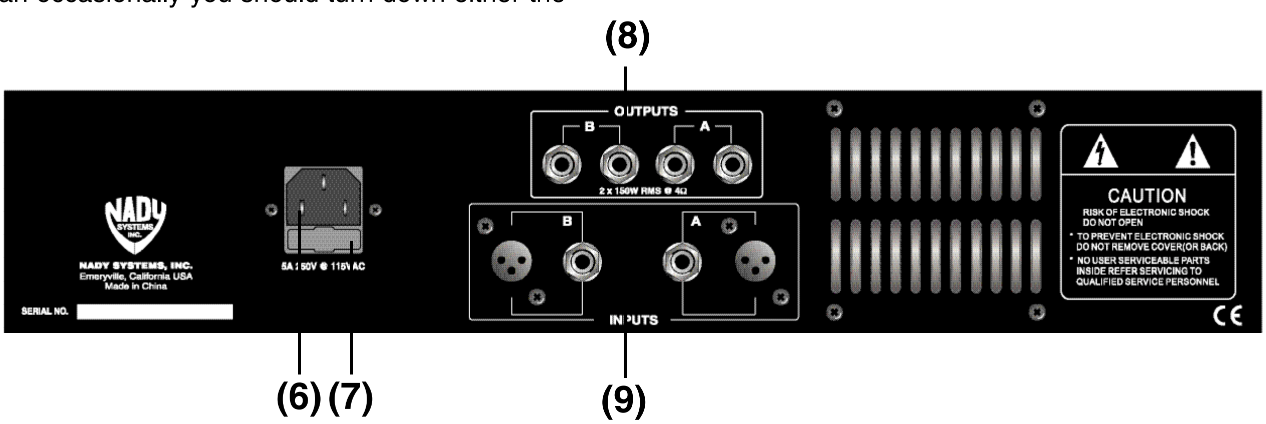
These LEDs illuminate if any section of the power amplifier’s output are within 3dB of clipping. Occasional blinking of the LEDs are acceptable, but if they remain on more than occasionally you should turn down either the power amplifier’s level controls or reduce the output level of the preceding component to avoid audible distortion or hard clipping. *(Note: Operating the amplifier at hard clipping can result in overheating or may damage your amplifier over a period of time. Amplifiers that are damaged due to such user neglect, or improper operation, are not covered under warranty.)*

4. SIGNAL LED INDICATORS

These LEDs illuminate to confirm the presence of an input signal greater than 100 mV at that channel of the amplifier

5. LEVEL CONTROLS

These control the level of signal coming into each channel. The actual voltage gain of the amplifier is shown in dB. Turn these controls counterclockwise if the peak LEDs illuminate steadily (indicating too strong an input signal).



REAR PANEL

6. POWER CONNECTOR

The cord connector is used to connect the AC power source to your power amplifier. *(CAUTION: DO NOT REMOVE THE CENTER GROUNDING PIN.)*

7. FUSE

If this fuse blows continuously, shut off the unit and have it serviced by qualified service technician. 115V AC ~5A 250V FB

8. L/R CHANNEL OUTPUT CONNECTORS

1/4” (6.3 mm) speaker output jacks. Connect these to speakers with a total impedance of no less than 4 ohms per side.

9. BALANCED INPUT CONNECTORS (1/4" TS & XLR)

1/4" (6.3mm) TS (Tip/Sleeve) phone jacks and XLR jacks.

INSTALLATION

To ensure years of enjoyment from your NADY AUDIO ProPower™ PPA-300, please read and understand this manual thoroughly before using the unit.

INSPECTION

Your NADY AUDIO ProPower™ PPA-300 was carefully packed at the factory in packaging designed to protect the units in shipment. Before installing and using your unit, carefully examine the packaging and all contents for any signs of physical damage that may have occurred in transit.

[Please note: Nady Systems is not responsible for shipping damage. If your unit is damaged, do not return to Nady, but notify your dealer and the shipping company (if shipped to you) immediately to make a claim. Such claims must be made by the consignee in a timely manner.]

CONTENTS

• Instruction manual
• PPA-300 (verify that the unit's serial number is same as shown on shipping carton)
• AC Power cord
• Warranty Card

POWER CONNECTION

The PPA-300 has an internal power supply and is designed to operate from an external AC source. Power requirements for electrical equipment differ from area to area. Be sure to confirm that the voltage is your area is 115V, 60 Hz

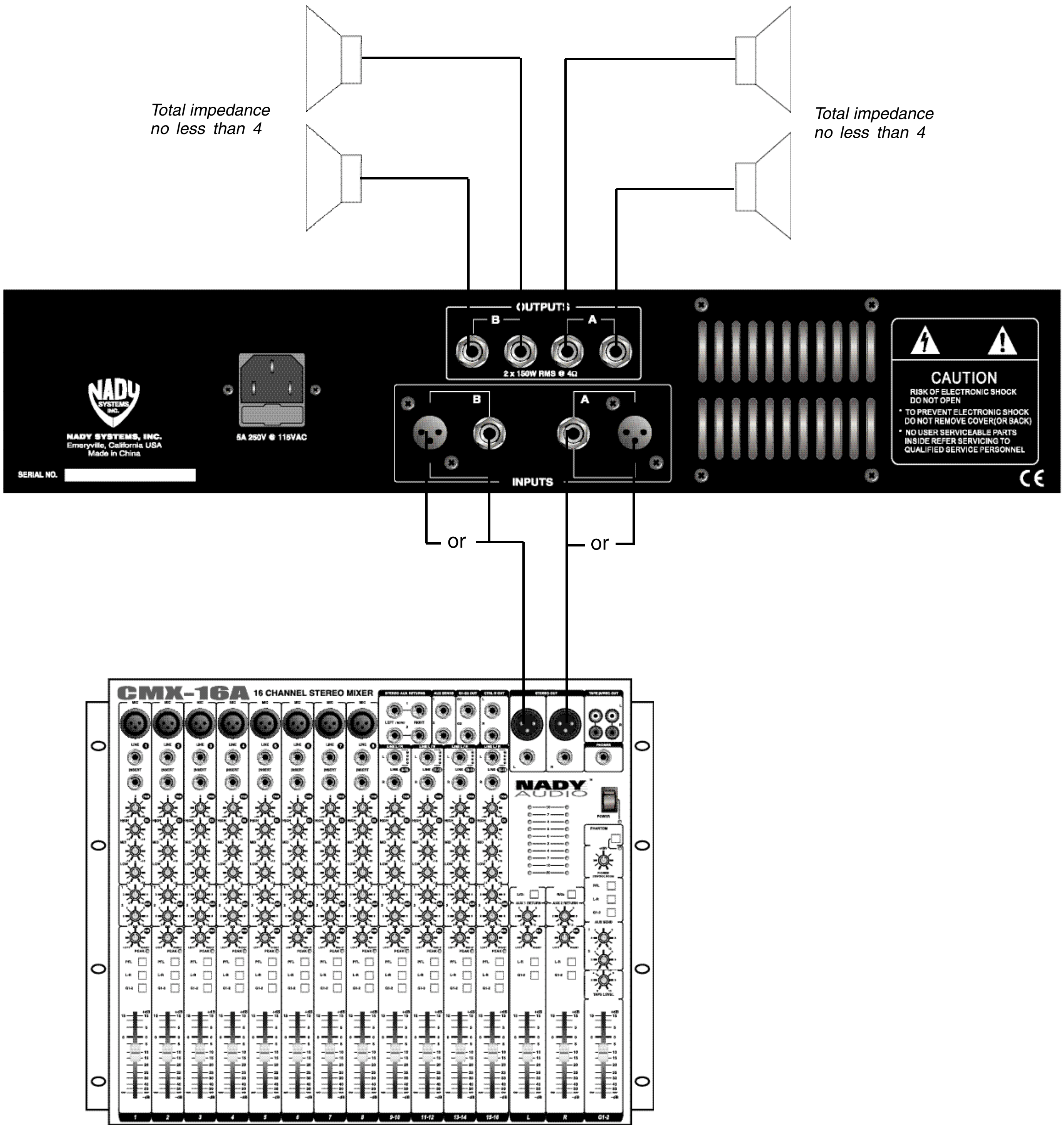
RACK MOUNTING

The PPA-300 amplifier is designed for standard 19" rack mounting as well as "stack" mounting without a cabinet. Use 4 screws and washers for mounting to the front rack rails. It is also a good idea to support the amps also in the rear, especially for mobile use where the amps will be subjected to shocks.

AMPLIFIER COOLING

Also pay close attention to the cooling requirements. Never block the air vent in the back side and front of the amplifier if the amplifier is being run at high output levels. For best results in such high output power applications you should augment the amplifier's air flow with a rack cooling system.

CONNECTIONS



SPECIFICATIONS

POWER SPECIFICATIONS

OUTPUT POWER (EIA 1KHz 1% THD) ....120W RMS @ 8 ohms per side

150W RMS @ 4 ohms per side

ELECTRICAL SPECIFICATIONS

INPUT SENSITIVITY ....500V RMS (-4dBu)

INPUT IMPEDANCE ....50K Unbalanced & Balanced

FREQUENCY RESPONSE (at 10dB below rated output power) ....20Hz~20KHz ±1dB

5Hz~50KHz ±3dB

DISTORTION ....<.1%

S/N RATIO 100dB

GENERAL SPECIFICATIONS

PROTECTIONS ....Full short circuit, open circuit, thermal, ultrasonic, and RF

protection; stable into reactive or mismatched loads; ON/OFF muting; current limiter

FRONT CONTROLS ....Power switch, input level control for each channel

REAR PANEL CONTROLS ....AC voltage selector switch

CONNECTORS ....Power; IEC power cord jack

Input: Active balanced XLR and 1/4" (6.3mm) TRS

Output: dual 1/4" speaker jacks

POWER SUPPLY ....110V~120V 60 HZ

FUSE ....115V AC ~ 5A 250V FB

DIMENSIONS ....19" x 9.6" x 3.5" (483 x 244 x 89 mm)

WEIGHT ....16.6 lbs. (7.5Kg)

The specifications above are correct at the time of printing of this manual. For improvement purposes, all specifications for this unit, including design and appearance, are subject to change without prior notice.

SERVICE FOR YOUR NADY AUDIO PRODUCT

(U.S.) Should your NADY AUDIO product require service, please contact the Nady Service Department via telephone at (510) 652-2411, or e-mail at service@nady.com.

(International) For service, please contact the NADY AUDIO distributor in your country through the dealer from whom you purchased this product.

DO NOT ATTEMPT TO SERVICE THIS UNIT YOURSELF AS IT CAN BE DANGEROUS AND WILL ALSO VOID THE WARRANTY.

NADY AUDIO®

NADY SYSTEMS, INC. • 6701 SHELLMOUND STREET, EMERYVILLE, CA 94608
Tel: 510.652.2411 • Fax: 510.652.5075 • nady.com